July 14, 2021

Rachael Thorn
Environmental Quality Department
Land and Water Resources Division
Chatham County
P O Box 548
Pittsboro, NC 27312

Re: Project Name: Pyewacket Subdivision – Inventory + Fragmentation Map Review

Dear Rachael:

I want to thank you for your help and patience with me on this project. We both agree that it is a tough property because it is a very nice parcel, but the effort should be worth the struggle in the long run. I offer the following responses to your comments:

- 1. How many acres are in septic fields within Natural Space? Outline the overlap of Primary and Septic on Map 3, perhaps this can be used to increase Primary area within Natural Space acreage given a No Practical Alternatives approach.
 - There are 7.6 acres of septic field within the Primary Area Natural Space that will be used for Pyewacket lots. There is more suitable septic areas to the south that will not be used and more in 'non-primary areas'. Please refer to Inventory Map #3.
- 2. Remove Timbered land and Mature woods from Map 1 for Existing NS. Completed.
- 3. Remove Proposed NS from Map 1. Completed.
- 4. Remove dashed red lines from Map 1. *Completed*.
- Wells should be Open Space- remove from NS on all maps, including access to wells.Completed.
- 6. Map 2 should show only Proposed Natural Space (No Open Space, no development). You can differentiate the "unidentified" areas you wish to connect and use as Natural Space, but use a different color for that and a label to explain. *Completed.*
- 7. Map 3- change nat. community to Primary (Map 2 as well), Differentiate Primary from Other as on Map 2. Show septic fields. *Completed*.
- 8. Not enough connection from mid to southern Natural Space, consider widening. *I* removed Emma Court and increased the width between these natural space areas.
- 9. Show NHP buffer only where being observed and used as Natural Space and labeled. That buffer line is now on map #3 only. The primary purpose is to help explain the justification for the non-primary area natural space.
- 10. Take a hard look at Emma Court, Clarabell, or Tabitha cul de sac areas and consider shortening them or reconfiguring if at all possible. *The natural space was increased in all of these areas.*

104 Amber Wood Run Chapel Hill, NC 27516 919-593-1916 <u>warrendmitchellpe@gmail.com</u>

JUSTIFICATION FOR NON-PRIMARY AREA IN NATURAL SPACE SELECTION

Inventory Map #2 shows all of the Natural Space selection broken up into primary areas and non-primary areas. There is 32.5 acres of primary area and 9.0 acres of non-primary area.

- 1. The 3 non-primary areas adjacent to the large natural area are interconnected with the primary area. These areas help to 'unite' the larger primary area and even connect this natural area to the Morgan Ridge Natural area on the adjacent property.
- 2. All of the non-primary areas proposed for natural space are located within the NHP recommended 200 ft stream buffer. This buffer line is shown on map #3. That map shows that most of the southern 200 ft stream buffer is being protected.
- 3. These non-primary areas will become primary areas due to the natural occurrence of Forest Succession. These areas all contain hardwood species today and will become primary areas eventually.

Please feel free to contact me at 919-593-1916 or warrendmitchellpe@gmail.com if you have any questions or comments.

Sincerely,

Warren D. Mitchell, PE

Jan. hof





